BRUHATH BANGALORE MAHANAGARA PALIKE
BYATARAYANAPURA DIVISION

Name of the work: Improvementsto Roads and Drains of Pampa Extension main road to Coffee board Layout Main road(via From Canara Bank ATM and Raghvendra Hotel Circle and Kuvempu road)in ward No 07 Byatarayanapura

Second and Part Bill
Test Report

AGGREGATE IMPACT VALUE
(IS: 2386 Part - 4)

TEJUS CONSULTANTS

Project	Improvements to Roads and Drains of Pampa Extension main road to Coffee board Layout Main road(via From Canara Bank ATM and Raghvendra Hotel Circle and Kuvempu road)in ward No 07 Byatarayanapura		
Client	BRUHAT BANGALORE MAHANAGARA PALIKE		
Consultant	M/s Tejus Consultants		
Contractor	Benaka Developers & Project Pvt.Ltd.		
Proposed Use	WMM	**Date of Sampling**	**03.04.2019**
Sample Location	**At plant**	**Date of Testing**	**03.04.2019**

Sl. No.	Description		Test No. 1	Test No. 2	Test No. 3	Spec Limit (%)
1	Wt. of stone pieces (dry) passing IS Sieve 12.5mm but retained in IS sieve 10mm (gm)	(Wa)	342.00	335.00	346.00	
2	Wt. of the fraction retained in IS sieve 2.36mm after the impact test (gm)	(Wb)	274.00	273.00	271.00	
3	Wt. of the fraction passed in IS sieve 2.36mm after the impact test (gm)	(Wc)	68.00	62.00	75.00	
4	Aggregate Impact Value (%)	(Wc/Wa)* 100	19.88	18.51	21.68	
5	Average Aggregate impact value	(%)	20.02			Max - 30 %

Remarks : ✓ Satisfactory / Not Satisfactory

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AE(WZ)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 013

TEJUS CONSULTANTS

Authorised Signatory

TEJUS
CONSULTANTS

FLAKINESS AND ELONGATION INDICES (IS 2386, PART 1)

Project	Improvements to Roads and Drains of Pampa Extension main road to Coffee board Layout Main road(via From Canara Bank ATM and Raghvendra Hotel Circle and Kuvempu road)in ward No 07 Byatarayanapura
Client	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant	M/s Tejus Consultants
Contractor	Benaka Developers & Project Pvt.Ltd.

Type of Material	WMM	**Proposed Use**	WMM
Sample Location	At plant	**Date of Sampling**	03.04.2019
		Date of Testing	03.04.2019

Size of aggregate		Flakiness Index		Elongation Index	
Passing through IS sieve, mm	**Retained on IS sieve, mm**	**Total wt. of aggregate retained on sieves (A) gms.**	**Wt. of aggregate passing from Flakiness gauge (B) gms**	**Wt. of aggregate retained on Flakiness gauge (C) gms**	**Wt. of aggregate retained on Elongation gauge after retained on Flakiness gauge(D)gms**
63.0	50.0	0	0	0	0
50.0	40.0	0	0	0	0
40.0	31.5	0	0	0	0
31.5	25.0	0	0	0	0
25.0	20.0	0	0	0	0
20.0	16.0	858	73	785	52
16.0	12.5	1200	112	1088	112
12.5	10.0	451	78	373	60
10.0	6.3	500	52	448	34
Total		**3009**	**315**	**2694**	**258**

Note: Minimum 200 Pcs should be taken on each fraction of test

Flakiness Index(%):	10.47
Elongation Index(%):	9.58
Combined FI+EL (%)	20.05

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Authorised Signatory

AE(WT)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore

TEJUS
CONSULTANTS

GRADATION FOR WMM
(As per MORT&H 400-11)

Name of Work	:	Improvements to Roads and Drains of Pampa Extension main road to Coffee board Layout Main road(via From Canara Bank ATM and Raghvendra Hotel Circle and Kuvempu road)in ward No 07 Byatarayanapura
Client	:	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant	:	M/s Tejus Consultants
Contractor	:	Benaka Developers & Project Pvt.Ltd.
Date of Testing	:	03.04.2019
Type of Mix	:	WMM
Sample I/D	:	WMM 1

Sample Location:	At plant	**Date of Sampling:**	03.04.2019
Type of material & Purpose:	WMM	**Date of testing:**	03.04.2019
		Oven Dry Wt.(gms):	10000.0

IS Sieve size in mm	Weight retained (gm)	Cummulative weight retained (gm)	Cummulative % of retained	Cummulative % of passing	Specification limits
53	0	0	0.00	100.00	100.00
45	620	620	6.20	93.80	95-100
22.4	2520	3140	31.40	68.60	60-80
11.2	1725	4865	48.65	51.35	40-60
4.75	1442	6307	63.07	36.93	25-40
2.36	1322	7629	76.29	23.71	15-30
0.6	872	8501	85.01	14.99	8.0-22.0
0.075	842	9343	93.43	6.57	0-8
Pan	657				
Total	10000				

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Assistant Executive Engineer
Kodigehalli Sub Division
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Bangalore

AE(W7)

Project	**Improvements to Roads and Drains of Pampa Extension main road to Coffee board Layout Main road(via From Canara Bank ATM and Raghvendra Hotel Circle and Kuvempu road)in ward**
Client	**BRUHAT BANGALORE MAHANAGARA PALIKE**
Consultant	**M/s Tejus Consultants**
Contractor	**Benaka Developers and Project Pvt. Ltd.**

Field Dry Density test by Sand Replacement Method (As per IS 2720 (Part 28)

Date of Testing	**04.04.2019**
Layer no. or level	WMM I layer
Depth of hole	250mm

Field density:	**1**	**2**	**3**
Wt. of wet material from hole (Ww) gms.	6168	6120	6210
Wt. of sand+cylinder before pouring (w1) gms.	14000	14000	14000
Wt. of sand+cylinder after pouring (w2) gms.	9712	9710	9700
Wt. of sand in cone (w3) gms.	835	842	830
Wt. of sand in hole (w4)=(w1-w2-w3) gms.	3453	3448	3470
Bulk density of sand (γs)gm/cc	1.31	1.32	1.31
Bulk density of material(i.e. wt. of the wet material) (γb)=(Ww/w4*(γs))gm/cc	2.34	2.34	2.34
Moisture meter reading(moisture content)	12.50	12.42	12.38
Result			
FDD(Wt.of the dry material)=(100γb/100+mc)gm/cc	2.08	2.08	2.09
MDD	2.12	2.12	2.12
OMC	12.50%	12.50%	12.50%
% of Compaction Obtained	98.11	98.31	98.40
Compaction Required	98%	98%	98%

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Authorised Signatory

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 09?

DE(ES)

AGGREGATE IMPACT VALUE
(IS: 2386 Part - 4)

TEJUS

Project	Improvements to Roads and Drains of Pampa Extension main road to Coffee board Layout Main road(via From Canara Bank ATM and Raghvendra Hotel Circle and Kuvempu road)in ward No 07 Byatarayanapura		
Client	BRUHAT BANGALORE MAHANAGARA PALIKE		
Consultant	M/s Tejus Consultants		
Contractor	Benaka Developers & Project Pvt.Ltd.		
Proposed Use	BC	**Date of Sampling**	**08.04.2019**
Sample Location	At plant	**Date of Testing**	**08.04.2019**

Sl. No.	Description		Test No. 1	Test No. 2	Test No. 3	Spec Limit (%)
1	Wt. of stone pieces (dry) passing IS Sieve 12.5mm but retained in IS sieve 10mm (gm)	(Wa)	425.00	442.00	432.00	
2	Wt. of the fraction retained in IS sieve 2.36mm after the impact test (gm)	(Wb)	302.00	362.00	342.00	
3	Wt. of the fraction passed in IS sieve 2.36mm after the impact test (gm)	(Wc)	123.00	80.00	90.00	
4	Aggregate Impact Value (%)	(Wc/Wa)*100	28.94	18.10	20.83	
5	Average Aggregate impact value	(%)	22.62			Max - 30 %

Remarks : ✓ Satisfactory / Not Satisfactory

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Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

AE (Ldy)

TEJUS
CONSULTANTS

FLAKINESS AND ELONGATION INDICES (IS 2386, PART 1)

Project :	Improvements to Roads and Drains of Pampa Extension main road to Coffee board Layout Main road(via From Canara Bank ATM and Raghvendra Hotel Circle and Kuvempu road)in ward No 07 Byatarayanapura
Client :	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant :	M/s Tejus Consultants
Contractor:	Benaka Developers & Project Pvt.Ltd.

Type of Material	BC	**Proposed Use**	**BC**
Sample Location	At plant	**Date of Sampling**	**08.04.2019**
		Date of Testing	**08.04.2019**

Size of aggregate		**Flakiness Index**		**Elongation Index**	
Passing through IS sieve, mm	**Retained on IS sieve, mm**	**Total wt. of aggregate retained on sieves (A) gms.**	**Wt. of aggregate passing from Flakiness gauge (B) gms**	**Wt. of aggregate retained on Flakiness gauge (C) gms**	**Wt. of aggregate retained on Elongation gauge after retained on Flakiness gauge(D)gms**
63.0	50.0	0	0	0	0
50.0	40.0	0	0	0	0
40.0	31.5	0	0	0	0
31.5	25.0	0	0	0	0
25.0	20.0	0	0	0	0
20.0	16.0	626	68	558	62
16.0	12.5	1212	108	1104	82
12.5	10.0	510	82	428	58
10.0	6.3	500	42	458	52
Total		**2848**	**300**	**2548**	**254**

Note: Minimum 200 Pcs should be taken on each fraction of test

Flakiness Index(%):	10.53
Elongation Index(%):	9.97
Combined FI+EL (%)	20.50

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Authorised Signatory

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore M... Palike
Ba...

GRADATION FOR BC
(As per MORT&H 500-18,Grading-2)

Name of Work	:	Improvements to Roads and Drains of Pampa Extension main road to Coffee board Layout Main road(via From Canara Bank ATM and Raghvendra Hotel Circle and Kuvempu road)in ward No 07 Byatarayanapura
Client	:	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant	:	M/s Tejus Consultants
Contractor	:	Benaka Developers & Project Pvt.Ltd.
Date of Testing	:	08.04.2019
Type of Mix	:	BC
Sample I/D	:	BC3

Sample Location:	At plant	Date of Sampling:	08.04.2019
Type of material & Purpose:	BC	Date of testing:	08.04.2019
		Oven Dry Wt.(gms):	1200.0

IS Sieve size in mm	Weight retained	Cummulative weight retained (gm)	Cummulative % of retained	Cummulative % of passing	Specification limits
19.00	0	0	0.00	100.00	100.00
13.20	142	142.0	11.83	88.17	79 - 100
9.50	110	252.0	21.00	79.00	71 - 95
4.75	210	462.0	38.50	61.50	53 - 71
2.360	120	582.0	48.50	51.50	42 - 58
1.180	142	724.0	60.33	39.67	34 - 48
0.600	114	838.0	69.83	30.17	26 - 38
0.300	126	964.0	80.33	19.67	18 - 28
0.150	68	1032.0	86.00	14.00	12 - 20
0.075	100	1132.0	94.33	5.67	4 - 10
Pan	68.0				
Total	1200.0				

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MOLLY.N.D
AE(LT)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

TEJUS CONSULTANTS

Authorised Signatory

BITUMEN CONTENT AND GRADATION DETERMINATION OF BITUMINOUS CONCRETE MIX

Name of Work :	Improvements to Roads and Drains of Pampa Extension main road to Coffee board Layout Main road(via From Canara Bank ATM and Raghvendra Hotel Circle and Kuvempu road)in ward No
Client :	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant :	M/s Tejus Consultants
Contractor :	Benaka Developers & Project Pvt.Ltd.
Date of Testing :	09.04.2019
Type of Mix :	BC
Sample I/D :	BC1

DETERMINATION OF BITUMEN CONTENT

Description	Trail 1	Trail 2
1. Weight of Mixture before extraction, g	850	835
2. Weight of Mixture after extraction, g	806	792
3. Weight of Bitumen	44	43
4. Weight of filter paper before extraction, g	2.00	2.00
5. Weight of filter paper after extraction, g	4.00	4.10
6. Weight of fines, g	2.00	2.10
7. Weight of Bitumen & fines	46.00	45.10
8. Bitumen content in %	5.41	5.40
9. Average Bitumen content in %	**5.41**	
10. Minimum Bitumen content in %	**5.40**	

GRADATION FOR BC AFTER EXTRACTION

(As per MORT&H 500-18,Grading-2)

Sample Location:	At site	Date of Sampling:	09.04.2019
Type of material & Purpose:	**BC**	Date of testing:	09.04.2019
		Oven Dry Wt.(gms):	806.0

IS Sieve size in mm	Weight retained	Cummulative weight retained (gm)	Cummulative % of retained	Cummulative % of passing	Specification limits
19.00	0	0	0.00	100.00	100.00
13.20	102	102.0	12.66	87.34	79 - 100
9.50	64	166.0	20.60	79.40	71 - 95
4.75	136	302.0	37.47	62.53	53 - 71
2.360	102	404.0	50.12	49.88	42 - 58
1.180	84	488.0	60.55	39.45	34 - 48
0.600	83	571.0	70.84	29.16	26 - 38
0.300	44	615.0	76.30	23.70	18 - 28
0.150	62	677.0	84.00	16.00	12 - 20
0.075	74	751.0	93.18	6.82	4 - 10
Pan	55.0				
Total	806.0				

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Authorised Signatory

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bengalore Mahanagara Palike
Bangalore - 560 092

GRADATION FOR BC
(As per MORT&H 500-18,Grading-2)

Name of Work	:	Improvements to Roads and Drains of Pampa Extension main road to Coffee board Layout Main road(via From Canara Bank ATM and Raghvendra Hotel Circle and Kuvempu road)in ward No 07 Byatarayanapura
Client	:	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant	:	M/s Tejus Consultants
Contractor	:	Benaka Developers & Project Pvt.Ltd.
Date of Testing	:	11.04.2019
Type of Mix	:	BC
Sample I/D	:	BC3

Sample Location:	At plant	Date of Sampling:	11.04.2019
Type of material & Purpose:	BC	Date of testing:	11.04.2019
		Oven Dry Wt.(gms):	1200.0

IS Sieve size in mm	Weight retained	Cummulative weight retained (gm)	Cummulative % of retained	Cummulative % of passing	Specification limits
19.00	0	0	0.00	100.00	100.00
13.20	148	148.0	12.33	87.67	79 - 100
9.50	124	272.0	22.67	77.33	71 - 95
4.75	213	485.0	40.42	59.58	53 - 71
2.360	134	619.0	51.58	48.42	42 - 58
1.180	128	747.0	62.25	37.75	34 - 48
0.600	124	871.0	72.58	27.42	26 - 38
0.300	110	981.0	81.75	18.25	18 - 28
0.150	52	1033.0	86.08	13.92	12 - 20
0.075	50	1083.0	90.25	9.75	4 - 10
Pan	117.0				
Total	1200.0				

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AE (QC)

Authorised Signatory

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Kodigehalli Sub Division
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TEJUS
CONSULTANTS

FLAKINESS AND ELONGATION INDICES (IS 2386, PART 1)

Project :	Improvements to Roads and Drains of Pampa Extension main road to Coffee board Layout Main road(via From Canara Bank ATM and Raghvendra Hotel Circle and Kuvempu road)in ward No 07 Byatarayanapura
Client :	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant :	M/s Tejus Consultants
Contractor:	Benaka Developers & Project Pvt.Ltd.

Type of Material	BC	**Proposed Use**	**BC**
Sample Location	At plant	**Date of Sampling**	**11.04.2019**
		Date of Testing	**11.04.2019**

Size of aggregate		**Flakiness Index**		**Elongation Index**	
Passing through IS sieve, mm	**Retained on IS sieve, mm**	**Total wt. of aggregate retained on sieves (A) gms.**	**Wt. of aggregate passing from Flakiness gauge (B) gms**	**Wt. of aggregate retained on Flakiness gauge (C) gms**	**Wt. of aggregate retained on Elongation gauge after retained on Flakiness gauge(D)gms**
63.0	50.0	0	0	0	0
50.0	40.0	0	0	0	0
40.0	31.5	0	0	0	0
31.5	25.0	0	0	0	0
25.0	20.0	0	0	0	0
20.0	16.0	632	68	560	68
16.0	12.5	1225	102	1125	82
12.5	10.0	566	80	450	58
10.0	6.3	520	52	460	42
Total		**2943**	**302**	**2595**	**250**

Note: Minimum 200 Pcs should be taken on each fraction of test

Flakiness Index(%):	10.26
Elongation Index(%):	9.63
Combined FI+EL (%)	19.90

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TEJUS CONSULTANTS

Authorised Signatory

Abdul. N.D
AE(W7)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
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TEJUS

AGGREGATE IMPACT VALUE
(IS: 2386 Part - 4)

Project	Improvements to Roads and Drains of Pampa Extension main road to Coffee board Layout Main road(via From Canara Bank ATM and Raghvendra Hotel Circle and Kuvempu road)in ward No 07 Byatarayanapura		
Client	BRUHAT BANGALORE MAHANAGARA PALIKE		
Consultant	M/s Tejus Consultants		
Contractor	Benaka Developers & Project Pvt.Ltd.		
Proposed Use	BC	**Date of Sampling**	**11.04.2019**
Sample Location	At plant	**Date of Testing**	**11.04.2019**

Sl. No.	Description		Test No. 1	Test No. 2	Test No. 3	Spec Limit (%)
1	Wt. of stone pieces (dry) passing IS Sieve 12.5mm but retained in IS sieve 10mm (gm)	(Wa)	365.00	345.00	345.00	
2	Wt. of the fraction retained in IS sieve 2.36mm after the impact test (gm)	(Wb)	282.00	282.00	262.00	
3	Wt. of the fraction passed in IS sieve 2.36mm after the impact test (gm)	(Wc)	83.00	63.00	83.00	
4	Aggregate Impact Value (%)	(Wc/Wa)*100	22.74	18.26	24.06	
5	Average Aggregate impact value	(%)	21.69			Max - 30 %

Remarks : ✓ Satisfactory / Not Satisfactory

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AE (W-97)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

BITUMEN CONTENT AND GRADATION DETERMINATION OF BITUMINOUS CONCRETE MIX

Name of Work :	Improvements to Roads and Drains of Pampa Extension main road to Coffee board Layout Main road(via From Canara Bank ATM and Raghvendra Hotel Circle and Kuvempu road)in ward No
Client :	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant :	M/s Tejus Consultants
Contractor :	Benaka Developers & Project Pvt.Ltd.
Date of Testing :	09.04.2019
Type of Mix :	BC
Sample I/D :	BC1

DETERMINATION OF BITUMEN CONTENT

Description	Trail 1	Trail 2
1. Weight of Mixture before extraction, g	850	835
2. Weight of Mixture after extraction, g	806	792
3. Weight of Bitumen	44	43
4. Weight of filter paper before extraction, g	2.00	2.00
5. Weight of filter paper after extraction, g	4.00	4.10
6. Weight of fines, g	2.00	2.10
7. Weight of Bitumen & fines	46.00	45.10
8. Bitumen content in %	5.41	5.40
9. Average Bitumen content in %	**5.41**	
10. Minimum Bitumen content in %	**5.40**	

GRADATION FOR BC AFTER EXTRACTION

(As per MORT&H 500-18,Grading-2)

Sample Location:	At site	Date of Sampling:	09.04.2019
Type of material & Purpose:	**BC**	Date of testing:	09.04.2019
		Oven Dry Wt.(gms):	806.0

IS Sieve size in mm	Weight retained	Cummulative weight retained (gm)	Cummulative % of retained	Cummulative % of passing	Specification limits
19.00	0	0	0.00	100.00	100.00
13.20	102	102.0	12.66	87.34	79 - 100
9.50	64	166.0	20.60	79.40	71 - 95
4.75	136	302.0	37.47	62.53	53 - 71
2.360	102	404.0	50.12	49.88	42 - 58
1.180	84	488.0	60.55	39.45	34 - 48
0.600	83	571.0	70.84	29.16	26 - 38
0.300	44	615.0	76.30	23.70	18 - 28
0.150	62	677.0	84.00	16.00	12 - 20
0.075	74	751.0	93.18	6.82	4 - 10
Pan	55.0				
Total	806.0				

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DETERMINATION OF RATE OF SPREAD TACK COAT

Name of Work :	Improvements to Roads and Drains of Pampa Extension main road to Coffee board Layout Main road(via From Canara Bank ATM and Raghvendra Hotel Circle and Kuvempu road)in ward No 07
Client :	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant :	M/s Tejus Consultants
Contractor :	Benaka Developers & Project Pvt.Ltd.
Date of Testing :	09.04.2019
Type of Mix :	Tack coat
Sample I/D :	1

Determination	Unit	Test No		
		1	2	3
Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30	0.30 x .30
Area of Plate (a)	Sq.mtr	0.09	0.09	0.09
Initial Wt of empty Plate (b)	Kg	0.760	0.750	0.755
Final weight of plate after application of tack Coat (c)	Kg	0.783	0.773	0.778
Weight of tack Coat (d=c-b)	Kg	0.023	0.023	0.023
Rate of spread of tack coat	Kg/sq.m	0.250	0.256	0.251
Average	Kg/sq.m	0.252		
Specified Limit	Kg/sq.m	**0.250 Kg/sq.m**		

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory/Site.
3. Any Query regarding the report must be reported reported within 15days from the date of testing.

AE(M)

Assistant Executive Engineer
Kodigehalli Sub Division
Bangalore Mahanagara Palike
Bangalore - 560 092

TEJUS CONSULTANTS

Authorised Signatory

BITUMEN CONTENT AND GRADATION DETERMINATION OF BITUMINOUS CONCRETE MIX

Name of Work :	Improvements to Roads and Drains of Pampa Extension main road to Coffee board Layout Main road(via From Canara Bank ATM and Raghvendra Hotel Circle and Kuvempu road)in ward No
Client :	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant :	M/s Tejus Consultants
Contractor :	Benaka Developers & Project Pvt.Ltd.
Date of Testing :	12.04.2019
Type of Mix :	BC
Sample I/D :	BC1

DETERMINATION OF BITUMEN CONTENT

Description	Trail 1	Trail 2
1. Weight of Mixture before extraction, g	890	800
2. Weight of Mixture after extraction, g	844	759
3. Weight of Bitumen	46	41
4. Weight of filter paper before extraction, g	2.00	2.00
5. Weight of filter paper after extraction, g	4.10	4.20
6. Weight of fines, g	2.10	2.20
7. Weight of Bitumen & fines	48.10	43.20
8. Bitumen content in %	5.40	5.40
9. Average Bitumen content in %	5.40	
10. Minimum Bitumen content in %	5.40	

GRADATION FOR BC AFTER EXTRACTION

(As per MORT&H 500-18,Grading-2)

Sample Location:	At site	Date of Sampling:	12.04.2019
Type of material & Purpose:	BC	Date of testing:	12.04.2019
		Oven Dry Wt.(gms):	844.0

IS Sieve size in mm	Weight retained	Cummulative weight retained (gm)	Cummulative % of retained	Cummulative % of passing	Specification limits
19.00	0	0	0.00	100.00	100.00
13.20	96	96.0	11.37	88.63	79 - 100
9.50	104	200.0	23.70	76.30	71 - 95
4.75	112	312.0	36.97	63.03	53 - 71
2.360	114	426.0	50.47	49.53	42 - 58
1.180	84	510.0	60.43	39.57	34 - 48
0.600	62	572.0	67.77	32.23	26 - 38
0.300	80	652.0	77.25	22.75	18 - 28
0.150	51	703.0	83.29	16.71	12 - 20
0.075	60	763.0	90.40	9.60	4 - 10
Pan	81.0				
Total	844.0				

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Authorised Signatory

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

AE(Ltg)

DETERMINATION OF RATE OF SPREAD TACK COAT

Name of Work :	Improvements to Roads and Drains of Pampa Extension main road to Coffee board Layout Main road(via From Canara Bank ATM and Raghvendra Hotel Circle and Kuvempu road)in ward No 07
Client :	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant :	M/s Tejus Consultants
Contractor :	Benaka Developers & Project Pvt.Ltd.
Date of Testing :	12.04.2019
Type of Mix :	Tack coat
Sample I/D :	1

Determination	Unit	Test No		
		1	2	3
Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30	0.30 x .30
Area of Plate (a)	Sq.mtr	0.09	0.09	0.09
Initial Wt of empty Plate (b)	Kg	0.780	0.782	0.755
Final weight of plate after application of tack Coat (c)	Kg	0.803	0.805	0.778
Weight of tack Coat (d=c-b)	Kg	0.023	0.023	0.023
Rate of spread of tack coat	Kg/sq.m	0.250	0.256	0.251
Average	Kg/sq.m	0.252		
Specified Limit	Kg/sq.m	**0.250 Kg/sq.m**		

Note:

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3. Any Query regarding the report must be reported reported within 15days from the date of testing.

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Bangalore Mahanagara Palike
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TEJUS CONSULTANTS

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